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# 5.11    ENTERPRISE AND NETWORK MANAGEMENT SYSTEMS

## 5.11.1    Introduction

This Section identifies basic requirements for Enterprise and Network Management Systems. This section does not specify requirements for how an enterprise or network management system shall display performance data on a user interface, nor the data elements a management system must collect from a UC product.  The individual UCR Sections describe requirements as to what data elements, e.g., alarms, performance and status a UC product is required to send to a NM system for performance and status monitoring.

## 5.11.2    Minimum Requirements

Enterprise and Network Management systems must:

1.    Meet all Information Assurance and STIG Requirements
2.    Must interoperate with UC products' COTS NM interface/system for monitoring and commanding the UC product
3.    Leverage COTS Interface of UC products to be managed.
4.    Must be capable of exchaging data with other Network Management Systems for information sharing purposes.

### *5.11.2.1    Connectivity to Monitored Network Elements*

The management system must have the capability to establish the following protols for communication with a UC product:
a.    Receive SNMPv3 traps from a monitored product
b.    Send SNMP (MIB) poll requests to a monitored product
c.    Securing the connection using TLS

### *5.11.2.2    Segregation of NM Data into Categories*

The EMS system must be capable of receiving and analyzing the following NM data categories:

a.    System events
b.    Security Events
c.    Performance Events (5-minute polls)
d.    Performance (15-minute polls)
e.    Call Detail Records